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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/758,152	01/15/2004	Jeremy Wickins	1003-0059	4633

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EXAMINER

CECIL, TERRY K

ART UNIT PAPER NUMBER

1723

DATE MAILED: 06/01/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

10/758,152

**Applicant(s)**

WICKINS, JEREMY

**Examiner**

Mr. Terry K. Cecil

**Art Unit**

1723

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 26 October 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-13 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☒ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1, 8-9 and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Quase (U.S. 3,674,687). As shown in e.g. figure 1, Quase teaches a transfer connection between a pre-tank 60 and an aerating reactor tank 140. The pre-tank is provided with an overflow 56 [as in claim 1]. The pre-tank includes a “cover plate” (valve gates 94, 86 and associated walls) that reduces turbulence within the tank [as in claims 8-9]. The method of Quase teaches all the steps of claim 13 including batch treatment and transfer between the tanks.

### *Claim Rejections - 35 USC § 103*

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

4. Claims 1, 3, and 11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Koulovatos et al. (U.S. 3,679,053) in view of Quase. Koulovatos teaches a pre-tank (tank A) and a reactor tank (tank B) and connections therebetween for batch treatment. Koulovatos doesn't teach a storm overflow, but such is taught by Quase as expanded above [as in claims 1 and 13]. It is considered that it would have been obvious to one ordinarily skilled in the art at the time of the invention to have the overflow of Quase in the invention of Koulovatos, since Quase teaches the benefit of preventing overload of the system. Koulovatos doesn't teach a plurality of pre-tanks having aeration equipment. However, Quase teaches a plurality of storage tanks 140 (see col. 2, lines 10+) having respective inlets and outlets to alternating flow to a final treatment stage [as in claims 3, 11-12]. It is considered that it would have been obvious to one ordinarily skilled in the art at the time of the invention to have the storage tanks 140 of Quase as pre-tanks in the invention of Koulovatos, since Quase teaches the benefit of controlling the rate of flow to downstream treatment and the benefit of aeration pre-treatment before a final treatment.

5. Claims 2, 4-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Koulovatos in view of Quase and in further view of White (U.S. 4,839,057). The modified Koulovatos teaches a level sensor and aerator in the pre-tank but doesn't teach a stirrer and aerator that responds (switches off) to a lever sensor therein. However, such is taught by White. White

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teaches a stirrer in an aeration tank that shuts off after filling to a certain level (col. 2, lines 8-24). It is considered that it would have been obvious to one ordinarily skilled in the art at the time of the invention to have the aforementioned elements of White in the invention of the modified Koulovatos, since White teaches the benefit of allowing contaminants to settle to the bottom.

6. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Koulovatos in view of Quase and in further view of the German Reference (DE 10214305 A1). '305 teaches the storm overflow to include a weir (figure 1). It is considered that it would have been obvious to one ordinarily skilled in the art at the time of the invention to have the weir in the pre-tank of the modified Koulovatos, since '305 teaches the benefit of a means for removing excess stormwater flow from the system to prevent overloading thereof.

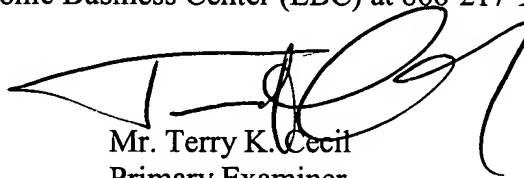
***Priority***

7. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in the United Kingdom on 1-17-2003. It is noted, however, that applicant has not filed a certified copy thereof as required by 35 U.S.C. 119(b).

8. Contact Information:

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- Examiner Mr. Terry K. Cecil can be reached at (571) 272-1138 at the Carlisle campus in Alexandria, Virginia for any inquiries concerning this communication or earlier communications from the examiner. Note that the examiner is on the increased flextime schedule but can normally be found in the office during the hours of 8:30a to 4:30p, on at least four days during the week M-F.
- Wanda Walker, the examiner's supervisor, can be reached at (571) 272-1151 if attempts to reach the examiner are unsuccessful.
- The Fax number for this art unit for official faxes is (571) 273-8300.
- Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Mr. Terry K. Cecil  
Primary Examiner  
Art Unit 1723

TKC  
May 30, 2006